

**Project Name:** Soil Studies in the Lower Namoi Valley  
**Project Code:** EDGEROI **Site ID:** we012 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b> W.T. Ward	<b>Locality:</b>
<b>Date Desc.:</b> 22/03/87	<b>Elevation:</b> 175 metres
<b>Map Ref.:</b> Sheet No. : 8737_N 1:50000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6657300 AMG zone: 55	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 707100 Datum: AGD66	<b>Drainage:</b> No Data

#### Geology

<b>ExposureType:</b> Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> No Data

#### Land Form

<b>Rel/Slope Class:</b> No Data	<b>Pattern Type:</b> No Data
<b>Morph. Type:</b> No Data	<b>Relief:</b> No Data
<b>Elem. Type:</b> Terrace flat	<b>Slope Category:</b> Level
<b>Slope:</b> 0 %	<b>Aspect:</b> No Data

**Surface Soil Condition (dry):** Surface crust, Recently cultivated

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> N/A
	<b>Great Soil Group:</b> Grey clay

**Site Disturbance:** Cultivation. Rainfed

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A11	0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); Dark greyish brown (10YR4/2-Dry); ; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, <2 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, Calcareous, coarse fragments; Field pH 7.5 (pH meter); Few, very fine (0-1mm) roots;
A12	0.1 - 0.25 m	Dark greyish brown (10YR4/2-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, rounded, Calcareous, coarse fragments; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;
A13	0.25 - 0.7 m	Dark greyish brown (10YR4/2-Moist); ; Light clay; Weak grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
2A1	0.7 - 1.1 m	Very dark grey (10YR3/1-Moist); , 10YR4/3, 10-20% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
2B2	1.1 - 2.2 m	Brown (7.5YR4/4-Moist); , 10YR3/1, 2-10% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Fine (1-2mm) macropores, Moderately moist; Very firm consistence; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
2C	2.2 - 2.78 m	Yellowish brown (10YR5/4-Moist); , 7.5YR4/4, 20-50% , 0-5mm, Prominent; , 7.5YR4/2, 2-10% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Massive grade of structure; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 9 (pH meter);

#### Morphological Notes

A11 0-70cm seems to be a relatively recent addition (?Pian) to a prior soil, possibly Q. The surface soil is rather moist and deformed by drilling; weak lenses could be present. There is better structure and darker colour at 80cm. Note very fin

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A12      e carbonate in topsoil, rounded. There are some large faunal channels. Gypsum is mostly at 90-100cm., soil carbonate in situ at 30-40 and 175-190 cm. Single slickenside at 2m. C has remnants of depositional banding, 1mm thick, in packets.

**Observation Notes**

Parent Rock: , , first terraced fan, Namoi

**Site Notes**

Weak crust to coarse self-mulching. Soil very moist, strong brown colour showing to topsoil, probably low terrace. A clayier profile than at Edgeroi . A second hole on south side of Warrambool Creek, slightly lower, shows 15cm of light clay



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Laboratory Analyses Completed for this profile